

Uva Wellassa University
Department of Computer Science and Technology

CST 123-3 Database Management Systems - I

Assignment 1 - Practical

Duration: 02 Hours

Instructions:

Create a pdf document containing the screen shots of the table creations and query outputs for the following questions. Get the sql dump (.sql file) for the Part B and upload both as a zip file to the VLE naming it with your registration number.

Part A **(50 Marks)**

- Download Company_back.sql file and restore the Company database.
 1. Make the Dnumber as the foreign key in the Dept_Locations table.
 2. Retrieve the birthday and address of employee(s) whose name is 'John B Smith'.
 3. Retrieve the full name and address of all employees who work for the 'Research' department.
 4. List the project number, the controlling department number, and the department manager's last name, address and the date of birth for every project located in 'Stafford'.
 5. Retrieve all the salary of every employee and the distinct salary of employees' separately.
 6. List all employees and their addresses whose address is in Houston, Texas.
 7. Find all employees who were born during 1950s.
 8. Find all employees in department 5 whose salary is in between \$30000 and \$40000.
 9. Retrieve the Social security Numbers (Ssn) of all employees who work on project numbers 1, 2 or 3.
 10. Change the location and controlling department number of project number 10 to "Bellaire" and 5 respectively.

PART B**(50 Mark)**

- The manager of the “Suwa Setha” health care center wants to maintain a database to store the daily records of patients. He has contacted a database administrator in order to create a database for them. Patient, Ward and Patient_Admission are the tables that he has identified in the scenario.

- Assuming that you are the database administrator, create the following tables in the „**SuwaSetha**“ database (Note: Suggest suitable data types for each field.).

Patient(Patient_ID,P_Fname,P_Lname,DOB,Gender,Age,Address,Guardian_Name, Guardian_ContactNo)

Field Name	Data Type	Field Size	Constraints
Patient_ID	Text	4	Primary Key
P_Fname	Text	20	
P_Lname	Text	30	Not null
DOB	Date		
Gender	Text		
Age	Number	3	
Address	Text	30	
Guardian_Name	Text	50	
Guardian_ContactNo	Number	10	Unique

Ward (Ward_ID, Doc_In_Charge, No_Of_Beds)

Field Name	Data Type	Field Size	Constraints
Ward_ID	Text	4	
Doc_In_Charge	Text	50	Not null
No_Of_Beds	Number	2	

Patient_Admission (Admission_No, Patient_ID, Ward_ID, Date_Admitted)

Field Name	Data Type	Field Size	Constraints
Admission_No	Text	4	Primary Key
Patient_ID	Text	4	Foreign Key
Ward_ID	Text	4	
Date_Admitted	Date		

- Make the Ward_ID as the primary key in the Ward table after creating the tables.
- Make the Ward_ID as the foreign key in the Patient_Admission table after creating the tables.
- Display the table creations and the table structures of all 3 tables.
- Insert at least one record for each tables (Maximum no of records for each table is 2)
- Create a dump file called „**SuwaSetha_dump.sql**“.